

uShare

The Macintosh to UNIX Connection



Network Server

Uncompromising Performance, Cross-Platform Transparency

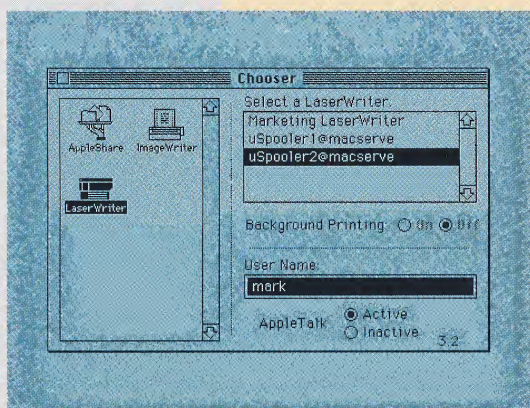
- *Network Server*
- *Print Server and Spooler*
- *Electronic Mail*
- *Virtual Disk*
- *Easy Admin*
- *A Choice of Platforms*
- *Support for Network Standards*
- *Ethernet to LocalTalk*

Macintosh users can now gain all the advantages of a powerful UNIX file server, without having to learn UNIX. Fully AppleShare compatible, uShare transparently integrates the Macintosh and UNIX environments. Mac users can work just as if connected to an AppleShare server, with all the processing power and worldwide networking ability of UNIX, while UNIX users maintain full access to both Mac and UNIX files. All information is stored on the file server using the UNIX file system.

To assure that all applications work without modification, uShare is designed to be 100% compliant with Apple Filing Protocol. The AppleShare workstation software included with every Macintosh is all that a user needs to log onto uShare servers. PC users can also take advantage of uShare by using Apple Computer's AppleShare PC, PC NFS or a variety of other methods. Macintosh and UNIX computers share a common processing, file storage, and networking environment. uShare also simultaneously supports multiple servers and volumes, all with password protection.

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Powerful, Compatible And Transparent...

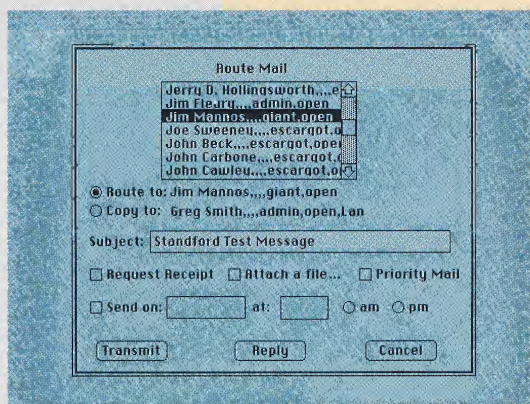


Print Server and Spooler

Direct Access To PostScript™

With the uShare Print Spooler, PostScript-compatible devices can be connected via networks, like LocalTalk and Ethernet. These printers can also be directly attached to a UNIX server using a serial cable. Macs and UNIX machines have transparent access to all connected printers, and can even intermix print jobs.

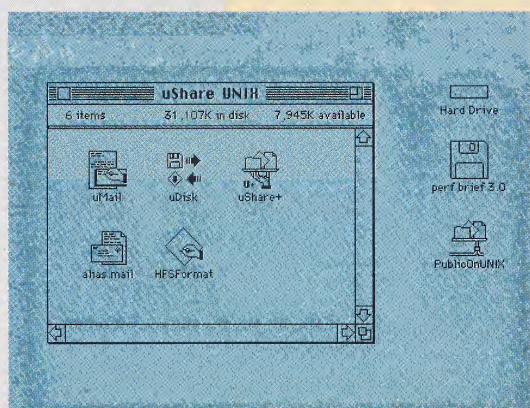
The uShare Print Server/Spooler queues Macintosh jobs to the UNIX computer, freeing the Macintosh from waiting for an available printer. The network can support a variety of output devices simultaneously, such as high resolution LinoTronic printing systems, RIP processors and other PostScript® devices. UNIX Workstations also have direct access to LocalTalk printers. Powerful UNIX printing functions such as the use of filters provides a new level of output control for Macintosh and UNIX users.



Electronic Mail

Communication Across Platforms and Around The World

uShare E-Mail forms a complete, two-way link between connected Macintoshes and the widely used UNIX E-Mail system. uShare Electronic Mail's desk accessory lets you attach files, specify send times and set delivery priority. Macs can now send messages locally or connect to world-wide Internet mailing systems such as Arpanet or Usenet.



Virtual Disk

Reduced Hardware Expense, Increased Network Control

Any Macintosh on the network can now boot or run applications without a local hard disk. You can create "virtual disks" on the server, saving the expense of local hard disks and allowing for a higher level of data security.

Support For Network Standards

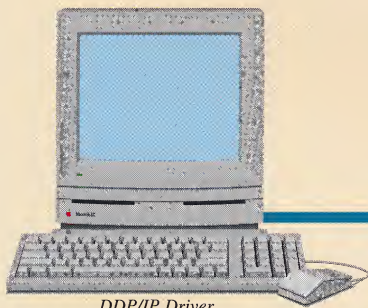
Seamless Interface Between Operating Systems

uShare's design permits easy exchange of files and data between computing platforms. Mac or UNIX users can open text files directly. Mac users see files on the UNIX machine as familiar icons, while UNIX operators function within the standard UNIX File System. AFP conversion to NFS, and vice versa, is completely user transparent. Normal UNIX administration, backup and restore routines keep network management straightforward.

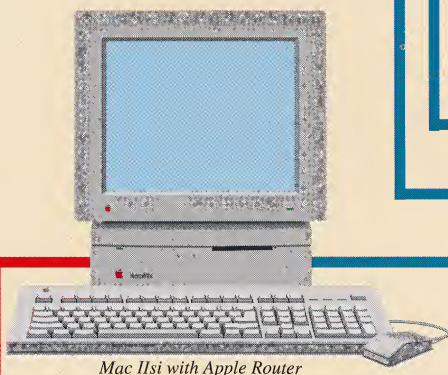
NFS, TCP/IP, AppleTalk Phase I & II and K-Star are all fully supported, gatewayed and bridged by uShare.



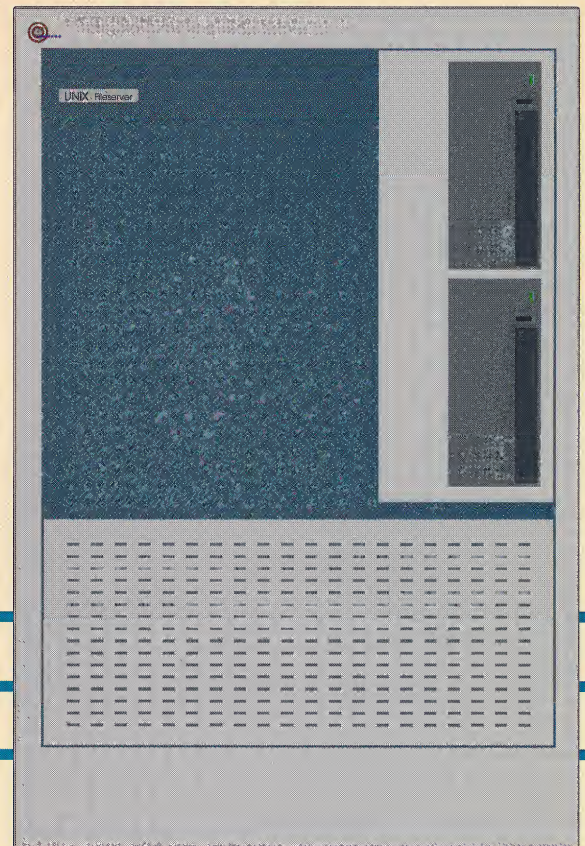
EtherTalk Driver



DDP/IP Driver



Mac IIx with Apple Router



UNIX Fileserver with uShare

EtherTalk

DDP/IP

EtherTalk Phase II

Ethernet

LocalTalk

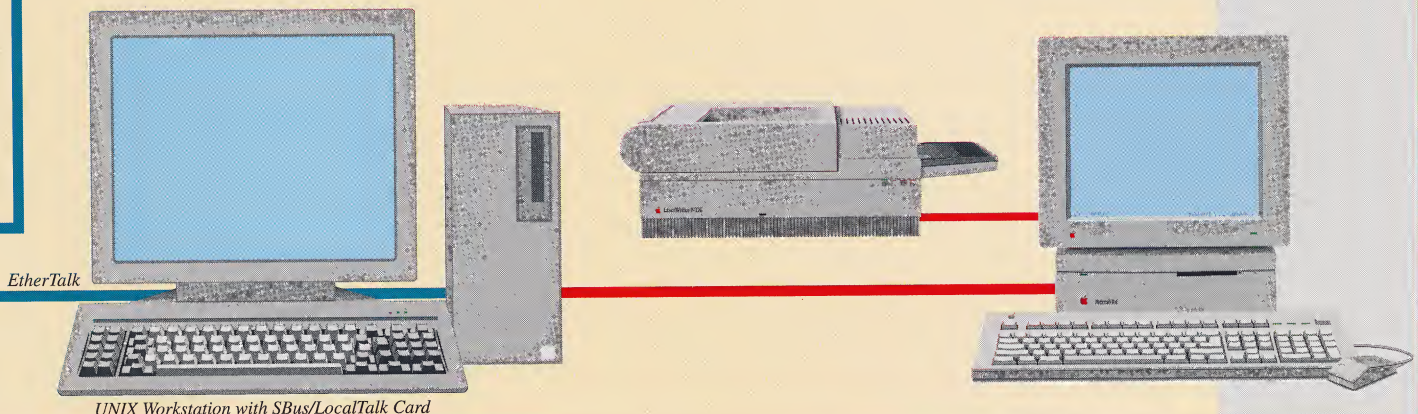
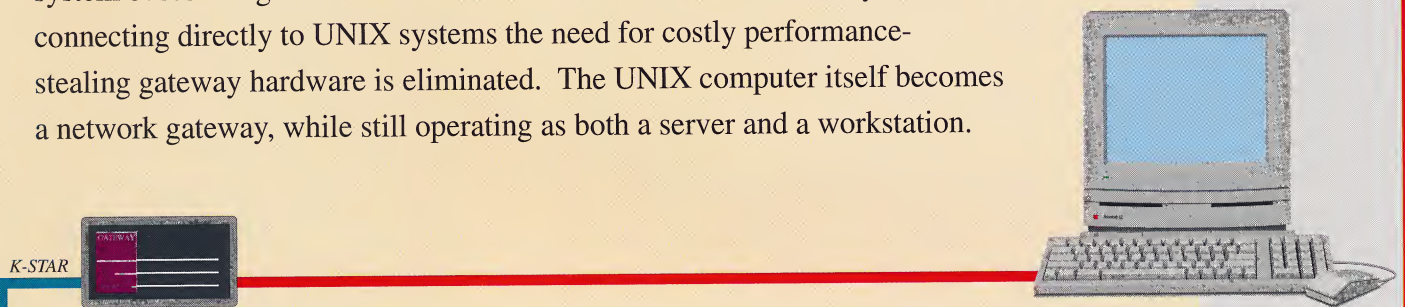
Flexible Connections



Ethernet To LocalTalk

Eliminating Costly Gateway Boxes

Macintosh workgroups can now be directly connected to a variety of UNIX system buses using one of IPT's new LocalTalk interface cards. By connecting directly to UNIX systems the need for costly performance-stealing gateway hardware is eliminated. The UNIX computer itself becomes a network gateway, while still operating as both a server and a workstation.



Easy Admin

Server Administration From The Macintosh Desktop

You can control all the flexibility of uShare from the point and click convenience of any connected Macintosh. The "Easy Admin" feature lets you add, modify or delete users, groups and volumes, just like AppleShare. Additionally, by accessing the network reports function, you can monitor user activity on an hourly, daily or monthly basis. uShare automatically records the type of resources used and the applications launched. It also tracks LaserWriter use including the number of pages each user prints.

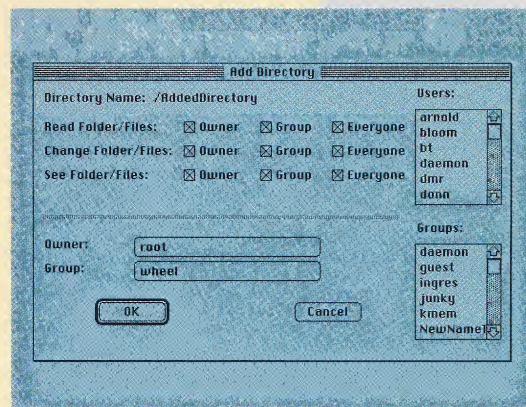
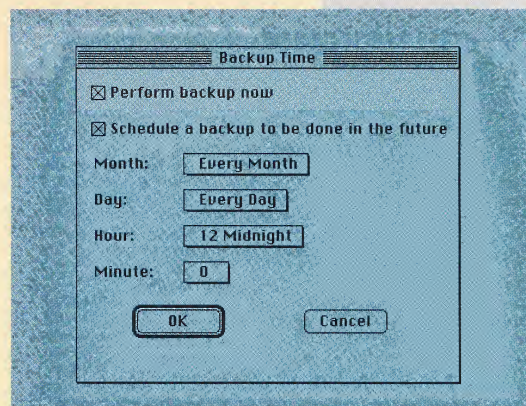
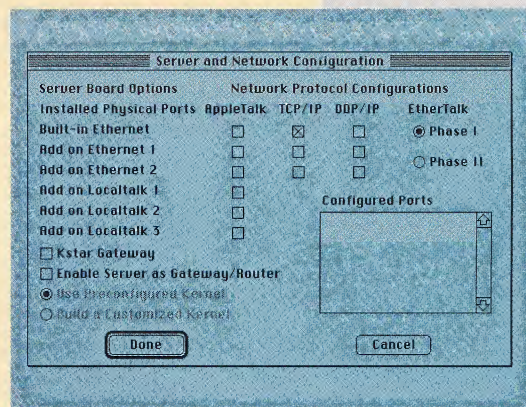
Another Easy Admin function lets you backup Mac files across the network to any uShare server. You can schedule automatic system-wide backups to be taken during low traffic periods, assuring data integrity with minimal impact on the network.

uShare's revolutionary network software control lets you install licensed application software on a shared volume in the server. Only users that the administrator authorizes have access and can run the same application simultaneously. This frees up disk space and controls access to purchased software copies.

A Choice of Platforms

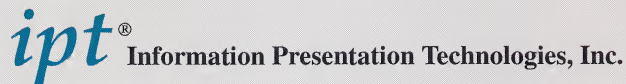
286 PC's to Cray Supercomputers

Until today, Macintosh users faced a limited number of choices in the world of network servers. UNIX-based uShare versions are designed to run on a wide range of the the most popular high performance systems available. Cost effective PC's, state of the art RISC workstations and advanced superminis and mainframes running UNIX now provide unprecedented flexibility in network design for Macintosh system managers. uShare eliminates the Macintosh server performance barrier.



Technical Specifications

IPT Network Hardware	IPT uShare/SBus/LocalTalk Board IPT LocalTalk Interface Card for the PC IPT uShare/VME/LocalTalk Board IPT uShare/MicroChannel™/LocalTalk Board IPT uShare/MultiBus/LocalTalk Board IPT uShare/Sony Bus/LocalTalk Board Other LocalTalk boards in development. Contact IPT for more info
Network Hardware from Other Manufacturers*	Shiva FASTPATH Gateway (Kinetics) Apple, Kinetics, 3Com, Shiva and Asanté EtherTalk Cards Apple and LocalTalk interface cards for the PC
File Systems	Apple HFS - Hierarchical File System AFP - Apple Filing Protocols NFS, BSD and SYS V on UNIX machines
Network Protocols	AppleTalk Phase I & II (EtherTalk, LocalTalk) TCP/IP and NFS K-STAR Special uShare ATARP Address Resolution Protocols all the above are fully supported, gatewayed and routed
uSHARE Platforms*	uShare is available for most leading UNIX platforms and operating systems. Contact IPT for more information.



P.O. Box 8609
Calabasas, California 91372
(818) 347-7791 Fax: (818) 992-5580
AppleLink: D0263 Internet Mail: INFO@IPTECH.COM

Eastern Regional Office:

Franklin Office Park West
38 Pond Street
Franklin, MA 02038
508-520-7118 Fax: 508-528-2502

For more information on uShare and other advanced connectivity products, contact IPT today at... 1-800-233-9993

* contact IPT, or your uShare Value Added Reseller for availability confirmation regarding specific hardware platforms and operating system versions, and support information regarding networking hardware from manufacturers other than those listed above.

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